medical fly JUL 24 1974

1970

FIFTEENTH ANNUAL REPORT

1970

INFANT and NEONATAL MORTALITY

and

STILLBIRTH RATES

by .

MONTANA HOSPITALS

Prepared by: Montana State Department of Health Division of Child Health Services Division of Records and Statistics

and

Montana Medical Association Maternal & Child Welfare Committee

Helena, Montana

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#### FOREWARD

TO: Hospital Administrators Medical Staffs, and Nurses

This is the 1970 report of infant and fetal mortality rates of Montana Hospitals. The figures in this report were taken from birth and death certificates reported to the State Department of Health, Division of Records and Statistics.

In 1970 there were 12,450 births in Montana by place of occurrence. There were 192 neonatal deaths, with a rate of 15.4 per 1,000 live births. There occurred 139 stillbirths with a rate of 11.2 per 1,000 live births. Perinatal deaths numbered 331 with a rate of 26.6 per 1,000 live births.

This report allows each hospital to see where it stands in relation to other Montana Hospitals, and it may indicate a need for evaluation of services to insure improvement in the future.

Division of Child Health Services of the Montana State Department of Health

and

Maternal and Child Welfare Committee of the Montana Medical Association

DCHS - MSDH 10-19-71

Chart #1 General Hospitals (100 beds or more)

Montana - 1970

	1969					of Deat			Rate per 1,000 Live Births						
		No.	%	Infant	1-12 Months	Neo- natal	Fetal Deaths	Peri- natal	Infant	1-12 Months	Neo- natal	Fetal Deaths	Peri- natal		
7054	6304	578	8.2	120	11	109	79	188	17.0	1.6	15.5	11:2	26.7		
1101	732	91	8.3	22	1	21	14	35	20.0	0.9	19.1	12.7	31.8		
977	887	66	6.8	15	1	14	14	28	15.4	1.0	14.3	14.3	28.7		
875	743	75	8.6	10	1	9	8	17	11.4	1.1	10.3	9.1	19.4		
778	745	67	8.6	12	2	10	4	14	15.4	2.6	12.9	5.1	18.0		
736	652	57	7.7	10	-	10	9	1.9	13.6	0.0	13.6	12.2	25.8		
692	678	66	9.5	14	-	14	6	20	20.2	0.0	20.2	8.7	28.9		
576	567	43	7.5	13	1	12	10	22	22.6	1.7	20.8	17.4	38 62		
402	386	22	5.5	7	1	6	8	14	17.4	2.5	14.9	19.9	34.8		
382	395	33	8.6	6	1	5	4	9	15.7	2.6	13.1	10.5	23.6		
374	357	36	9.6	5	3	2	1	3	13.4	8.0	5.3	2.7	8.0		
161	162	22	13.7	6	-	6	1	7	37.3	0.0	<b>37.</b> 3	6.2	43.5		

Chart #2
Intermediate General Hospitals (40-99 beds)

Montana - 1970

Infant and Fetal Mortalities

Live Births 1969		atures		Number o	r Death	5	Rate per 1,000 Live Births						
	No.	%	Infant	1-12 Months	Neo- natal	Fetal Deaths	Peri- natal	Infant	1-12 Months	Neo- natal	Fetal Deaths	Peri- natal	
2216	183	7.5	51	8	43	29	72	20.9	3.3	17.6	11.9	29.5	
461	38	7.4	13	5	8	3	11	25.4	9.8	15.6	5.9	21.5	
384	47	9.7	7	_	7	6	13	14.5	0.0	14.5	12.4	26.9	
168	9	4.1	3	~~	3	-	3	14.1	0.0	14.1	0.0	14.1	
186	1.7	8.8	5	1	4	2	6	25.8	5.2	20.6	10.3	30.9	
205	7	3.7	2	-	2	4	6	10.5	0.0	10.5	20.9	31.4	
189	9	4.9	1	1	-	2	2	5.5	5.5	0.0	11.0	11.0	
119	10	6.2	5	-	5	1	6	30.9	0.0	30.9	6.2	37.0	
114	19	11.9	4	1	3	3	6	25.2	6.3	18.9	18.9	37.7	
163	11	7.1	6	-	6	3	9	38.7	0.0	38.7	19.4	58.1	
126	9	7.0	2	-	2	2	4	15.6	0.0	15.6	15.6	31.2	
101	7	10.9	3	-	3	3	6	46.9	0.0	46.9	46.9	93.8	
	2216 461 384 168 186 205 189 119 114 163 126 101	No.  2216  183  461  38  384  47  168  9  186  17  205  7  189  9  119  10  114  19  163  11  126  9  101  7	No.     %       2216     183     7.5       461     38     7.4       384     47     9.7       168     9     4.1       186     17     8.8       205     7     3.7       189     9     4.9       119     10     6.2       114     19     11.9       163     11     7.1       126     9     7.0       101     7     10.9	No.       %       Infant         2216       183       7.5       51         461       38       7.4       13         384       47       9.7       7         168       9       4.1       3         186       17       8.8       5         205       7       3.7       2         189       9       4.9       1         119       10       6.2       5         114       19       11.9       4         163       11       7.1       6         126       9       7.0       2         101       7       10.9       3	No.       %       Infant       1-12 Months         2216       183       7.5       51       8         461       38       7.4       13       5         384       47       9.7       7       -         168       9       4.1       3       -         186       17       8.8       5       1         205       7       3.7       2       -         189       9       4.9       1       1         119       10       6.2       5       -         114       19       11.9       4       1         163       11       7.1       6       -         126       9       7.0       2       -         101       7       10.9       3       -	No.         %         Infant         1-12 Months         Neomonths natal           2216         183         7.5         51         8         43           461         38         7.4         13         5         8           384         47         9.7         7         -         7           168         9         4.1         3         -         3           186         17         8.8         5         1         4           205         7         3.7         2         -         2           189         9         4.9         1         1         -           119         10         6.2         5         -         5           114         19         11.9         4         1         3           163         11         7.1         6         -         6           126         9         7.0         2         -         2           101         7         10.9         3         -         3	No.         %         Infant Infant Inatal Months Inatal Months Inatal Deaths         Fetal Deaths           2216         183         7.5         51         8         43         29           461         38         7.4         13         5         8         3           384         47         9.7         7         -         7         6           168         9         4.1         3         -         3         -           186         17         8.8         5         1         4         2           205         7         3.7         2         -         2         4           189         9         4.9         1         1         -         2           119         10         6.2         5         -         5         1           114         19         11.9         4         1         3         3           163         11         7.1         6         -         6         3           126         9         7.0         2         -         2         2           101         7         10.9         3         -         3         3     <	No.         %         Infant         1-12 Months         Neo-natal Deaths natal         Fetal Perinatal           2216         183         7.5         51         8         43         29         72           461         38         7.4         13         5         8         3         11           384         47         9.7         7         -         7         6         13           168         9         4.1         3         -         3         -         3           186         17         8.8         5         1         4         2         6           205         7         3.7         2         -         2         4         6           189         9         4.9         1         1         -         2         2           119         10         6.2         5         -         5         1         6           114         19         11.9         4         1         3         3         6           163         11         7.1         6         -         6         3         9           126         9         7.0         2	No.         %         Infant Months         1-12 Months         Neo-natal Deaths natal         Fetal Perinatal         Infant Deaths natal           2216         183         7.5         51         8         43         29         72         20.9           461         38         7.4         13         5         8         3         11         25.4           384         47         9.7         7         -         7         6         13         14.5           168         9         4.1         3         -         3         -         3         14.1           186         17         8.8         5         1         4         2         6         25.8           205         7         3.7         2         -         2         4         6         10.5           189         9         4.9         1         1         -         2         2         5.5           119         10         6.2         5         -         5         1         6         30.9           114         19         11.9         4         1         3         3         6         25.2           163 <td>No.         %         Infant Months         1-12 Months         Neo-natal Deaths natal         Fetal Peri-Deaths natal         Infant Months           2216         183         7.5         51         8         43         29         72         20.9         3.3           461         38         7.4         13         5         8         3         11         25.4         9.8           384         47         9.7         7         -         7         6         13         14.5         0.0           168         9         4.1         3         -         3         -         3         14.1         0.0           186         17         8.8         5         1         4         2         6         25.8         5.2           205         7         3.7         2         -         2         4         6         10.5         0.0           189         9         4.9         1         1         -         2         2         5.5         5.5           119         10         6.2         5         -         5         1         6         30.9         0.0           114         19</td> <td>  No.   X</td> <td>  No.   X   Infant   1-12   Neo-   Fetal   Peri-   Deaths   natal   Neo-   Neo-</td>	No.         %         Infant Months         1-12 Months         Neo-natal Deaths natal         Fetal Peri-Deaths natal         Infant Months           2216         183         7.5         51         8         43         29         72         20.9         3.3           461         38         7.4         13         5         8         3         11         25.4         9.8           384         47         9.7         7         -         7         6         13         14.5         0.0           168         9         4.1         3         -         3         -         3         14.1         0.0           186         17         8.8         5         1         4         2         6         25.8         5.2           205         7         3.7         2         -         2         4         6         10.5         0.0           189         9         4.9         1         1         -         2         2         5.5         5.5           119         10         6.2         5         -         5         1         6         30.9         0.0           114         19	No.   X	No.   X   Infant   1-12   Neo-   Fetal   Peri-   Deaths   natal   Neo-   Neo-	

Chart #3 Small General Hospitals (10-39 beds)

Montana -- 1970

Total Live Births 1970	Total Live Births 1969	Prem	atures		Nun	ber of	Deaths		Rate per 1,000 Live Births						
		No.	%	Infant	1-12 Months	Neo- natal	Fetal Deaths	Peri- natal	Infant	1-12 Months	Neo- natal	Fetal Deaths	Peri- natal		
2 794	2895	1.64	5.9	41	10	31	26	57	14.7	3.6	11.1	9.3	20.4		
295	279	21	7.1	4	1	3	1	4	13.6	3.4	10.2	3.4	13.6		
245	263	15	6.1	3	-	3	3	6	12.2	0.0	12.2	12.2	24.5		
236	437	10	4.2	3	1	2	4	6	12.7	4.2	8.5	16.9	25.4		
198	187	13	6.6	2	decord)	2	****	2	10.1	0.0	10.1	0.0	10.1		
172	150	3	1.7	_	-	-	3	3	0.0	0.0	0.0	17.4	17.4		
131	149	3	2.3	1		1	2	3	7.6	0.0	7.6	15.3	22.9		
*121	95	7	5.8	1		1	-	1	8.3	0.0	8.3	0.0	8.3		
118	106	6	5.1	3		3	2	5	25 . 4	0.0	25.4	16 .9	42.4		
93	78	8	8.6	4	мара	4		4	43.0	0.0	43.0	0.0	43.0		
85	85	7	8.2	2	1	1	1	2	23.5	11.8	11.8	11.8	23.5		
80	82	7	8.8	5	3	2	4	6	62.5	37.5	25.0	50.0	75.0		
*Former	ly cl <b>assifi</b> c	ed as sma	all gene	ral hosp	ital - b	ecame a	n interm	ediate	 general ho 	spital i	in Octob	er, 1970			

Chart #3 Continued Small General Hospitals (10-39 beds)

Montana - 1970

Total Live Births 1970	Total Live Births 1969	Pre	matures		Nun	ber of	Deaths	Rate per 1,000 Live Births						
And Andrew Committee of the Committee of		No.	%	Infant	1-12 Months	Neo- natal	Fetal Deaths	Peri- natal	Infant	1-12 Months	Neo- natal	Fetal Deaths	Peri- natal	
40	36	1	2.5	_	==0	~	***	~	0.0	0.0	0.0	0.0	0.0	
38	44	6	15.8	2	-	2	-	2	52.6	0.0	52.6	0.0	52.6	
35	34	1	2.9	1	1	-	3	3	28.6	28.6	0.0	85.7	85.7	
29	31	2	6.9	-	-	444	-	-	0.0	0.0	0.0	0.0	0.0	
27	34	-	0.0	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	
27	27	_	0.0	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	
24	28	1	4.2	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	
17	26	1	5.9	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	
17	11	2	11.8	-	-	-	-		0.0	0.0	0.0	0.0	0.0	
12	14	-	0.0	-	-	-	-	code	0.0	0.0	0.0	0.0	0.0	
10	18	_	0.0	ende	delig	-	-	-	0.0	0.0	0.0	0.0	0.0	
6	10	-	0.0	***	ante	-	-	-	0.0	0.0	0.0	0.0	0.0	
				PORTUGAL AND WINDOWS AND WATER										

Chart #3 Continued Small General Hospitals (10-39 beds)

Montana - 1970

Total Live Births 1970	Total Live Births 1969	Prem	atures		Numb	er of I	eaths .		Rate per 1,000 Live Births						
		No.		Infant	1-12 Months	Neo- natal	Fetal Deaths	Peri- natal	Infant	1-12 Months	Neo- natal	Fetal Deaths	Peri- natal		
76	53	7	9.2	1	1	_	_	-	13.2	13.2	0.0	0.0	0.0		
73	62	2	2.7	-	4980	-	1	1	0.0	0.0	0.0	13.7	13.7		
65	51	3	4.6	2	-	2	-	2	30.8	0.0	30.8	0.0	30.8		
63	81	4	6.3	1	-	1		1	15.9	0.0	15.9	0.0	15.9		
59	67	4	6.8	1	-	1	-	1	16.9	0.0	16.9	0.0	16.9		
55	74	3	5.5	_	-	~	-	-	0.0	0.0	0.0	0.0	0.0		
54	21	6	11 1	1	-	1	-	1	18.5	0.0	18.5	0.0	18.5		
53	55	6	11.3	2	1	1	-	1	37.7	18.9	18.9	0.0	18.9		
53	41	3	5.7	1	-	1	-	1	18.9	0.0	18.9	0.0	18.9		
50	31	2	4.0	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0		
48	36	3	6.2	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0		
45	50	1	2.2	-	-	_	-	-	0.0	0.0	0.0	0.0	0.0		
44	49	6	13.6	1	1	-	2	2	22.7	22.7	0.0	45.5	45.5		

Chart #4 Community Facility (under 10 beds)

Montana - 1970

Total Live Births 1970	Total Live Births 1969	Prema	tures		Numb	er of I	<b>Dea</b> ths		Rate per 1,000 Live Births						
when the second		No .	%	Infant	1-12 Months	Neo- Natal	Fetal Deaths	Peri- natal	Infant	1-12 Months	Neo- natal	Fetal Deaths	Peri- natal		
84	94	6	7.1	2		2	-	2	23.8	0.0	23.8	0.0	23.8		
25	27	1	4.0		_	-			0.0	0.0	0.0	0.0	0.0		
25	23	3	12.0	2	***	-	-	2	80.0	0.0	80.0	0.0	80.0		
*21	26	2	9.5	-	-	-	***	-	0.0	0.0	0.0	0.0	0.0		
13	12	-	0.0	_	-		-	4000	0.0	0.0	0.0	0.0	0.0		
0	6		0.0	-	-	-	-	40/0	0.0	0.0	0.0	0.0	0.0		
*Licensed	as small g	eneral h	ospit <b>al</b>	until A	pril, 19	70.									

#### MONTANA

#### INFANT AND FETAL MORTALITIES

HOSPITAL	CITY	To:		Prema	ature	Nu	mber o	f Deatl	ns		Rate per 1,000 live births					
		1970	1969	No.	%	Inf.				Peri- natal				Fetal Deaths	Peri- natal	
Place of occurrence	All	12450	11631	942	7.6	263	71	192	139	331	21.1	5.7	15.4	11.2	26.6	
Just in Hospital		12375	** 11545	931	7.5	* 218	* 33	185	134	319	17.6	2.7	14.9	10.8	25.8	

<sup>\*\*</sup> Includes 36 births that occurred at St. John's in Helena before maternity ward closed.

<sup>\*</sup> Includes 4 infant deaths at Shodair



